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John Dolan's Update Separation Science e-Learning

HPLC Solutions

 

ISSUE 67
Retention Shifts
A reader complained about retention times that changed in an overnight HPLC run and wondered how to diagnose the problem source. The question left too many possibilities, and because there was no complaint about changing resolution, I'll assume that all the peaks moved in the same direction to longer or shorter retention times. There are only a few factors that are likely to affect the chromatogram in this manner. A change in the flow rate, the mobile phase, the column, or the temperature are the most likely candidates. John Dolan looks at each of these in turn...
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ISSUE 66
Enantiomer Separations
Recently, a reader sent a question to our "Ask the Doctor" e-mail asking how to get started with a method that required separation of enantiomers by reversed-phase HPLC. Unfortunately, the problem is a non-starter in this context. Enantiomers cannot be separated by reversed-phase techniques – they require some chirality in the system. John Dolan explains more...
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ISSUE 65
Mobile Phase Lifetimes
A reader recently sent in this e-mail: "I am trying to find information that I can put in an SOP regarding how long a mobile phase can be used before it must be discarded" It would be nice if there were cut-and-dried answer for questions like this. Unfortunately, the answer always seems to start with "it depends." Let's look at some important factors that can influence your decision on how long to use a mobile phase...
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